

COMMUNITY RENEWABLE ENERGY GRANT PROGRAM (CREP)

PROPOSAL



Wasco SWCD & Wy'East RC&D

BUILDING COMMUNITY RESILIENCE

WASCO COUNTY, OREGON

PROJECT BASICS

- Build on existing success to provide resilience to rural communities in Wasco County
- Small fleet of roving mobile power units, to provide on farm benefits for normal use. and power key infrastructure during emergencies
- Prewired key infrastructure sites, for easy plug and utilize model during emergency scenarios

Natural disaster preparedness and resiliency go hand and hand, when public safety power shutoffs, wildfires, ice storms, and other adverse weather conditions increase in frequency many rural areas across Oregon such as Wasco County are left without power as lines are more difficult to access and repair than their urban counterparts.

We propose a series of mobile power units, and the prewiring of sites that would not have typical backup power generation available. During natural disasters and PSPS events these mobile battery units could be moved throughout Wasco County as needed to power critical loads and emergency infrastructure.

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Such sites might include pump stations (wildfire fighting), strategically located gas stations (transportation needs), city wells (sanitation needs), schools and other public buildings (local disaster rally-muster sites) or provide power for a mobile command center. Additionally, project team would work with Northern Wasco PUD and Wasco Electric to identify crucial loads of concern in emergency situations. Flexibility of mobile power units can aid in supporting rural small businesses and agricultural producers in day-to-day operations when not in emergency use.

This project would build on past success, utilizing the 15 kW solar array and 5kW battery backup system at the Dufur Schools campus to supply power during disasters. This location is currently used as a red cross emergency shelter during natural disasters and is frequently used for fire camps during wildfire season. This makes for an ideal location to have mobile power units sent to as a rallying point during natural disasters and PSPS situations. From there the units could be charged and transported to the prewired key infrastructure points or where needed.

POTENTIAL MOBILE POWER UNITS

- **DANNAR Mobile Power Station**
500kWh Battery
- **Ford F-150 Lightning**
98kWh Battery (Standard)
131kWh Battery (Extended Range)
- **Monarch MK-V**
75kWh Battery
- **Rivian R1T**
135kWh Battery
- **New Holland T4- Electric**
95kWh Battery
- **Moxion MP-75/600**
600kWh Battery